## What is claimed is:

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- 1. A bacterium containing F' genetic material capable of an enhanced transformation efficiency.
- 2. The bacterium according to claim 1, wherein said bacterium is an Enterobacteriacae.
  - 3. The bacterium according to claim 2, wherein said bacterium is of the genus Escherichia.
  - 4. The bacterium according to claim 3, wherein said bacterium is an *Escherichia coli* (*E.coli*).
- 10 5. The *E. coli* bacterium according to claim 4, wherein said bacterium is DH5 $\alpha$  or a derivative thereof or an equivalent thereof.
  - 6. The *E. coli* bacterium according to claim 5, wherein said bacterium is DH5 $\alpha$ .
- 7. The *E. coli* bacterium according to claim 4, wherein said bacterium contains an F' plasmid.
  - 8. The *E. coli* bacterium according to claim 4, wherein said bacterium contains F' genetic material integrated in the bacterium's genome.
  - 9. The *E. coli* bacterium according to claim 5, wherein said bacterium contains an F' plasmid.
- 20 10. The *E. coli* bacterium according to claim 5, wherein said bacterium contains F' genetic material integrated in the bacterium.
  - 11. The *E. coli* bacterium according to claim 4, further comprising exogenous DNA that replicates independently of the bacterial chromosome.

- 12. The *E. coli* bacterium according to claim 11, further comprising plasmid DNA.
- 13. The E. coli bacterium according to claim 10, further comprising lambda DNA.
- 5 14. The *E. coli* bacterium according to claim 4, wherein the F' genetic material is derived from the F' genetic material of XL1-Blue.
  - 15. An *E. coli* bacterium according to claim 4, wherein the F' genetic material is derived from the F' genetic material of XL2-Blue.
- 16. A process for producing a bacterium capable of an enhanced
   transformation efficiency, comprising the following steps:

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- (a) introducing F' genetic material into a bacterium;
- (b) selecting said bacterium containing said F' genetic material; and
- (c) recovering said bacterium containing F' genetic material.
- 17. The process according to claim 16, wherein said bacterium is is of the genus Escherichia.
- 18. The process according to claim 17, wherein said bacterium is an *Escherichia coli* (*E.coli*).
- 20 19. The process according to claim 18, wherein said bacterium is DH5 $\alpha$  or a derivative thereof or an equivalent thereof.
  - 20. The process according to claim 19, wherein said bacterium is DH5 $\alpha$ .
  - 21. A process for preparing competent bacteria comprising the following steps:

- (a) growing a bacterium containing F' genetic material capable of an enhanced transformation efficiency in a growth-conductive medium; and
- (b) rendering said bacterium competent.
- 5 22. The process according to claim 21, wherein said bacterium is of the genus Escherichia.
  - 23. The process according to claim 22, wherein said bacterium is an *Escherichia coli* (*E.coli*).
- 24. The process according to claim 23, wherein said bacterium is DH5α
  10 or a derivative thereof or an equivalent thereof.
  - 25. The process according to claim 24, wherein said bacterium is DH5 $\alpha$ .
  - 26. A preparation of competent bacteria, wherein said preparation is produced by the process comprising:
    - (a) growing a bacterium containing F' genetic material capable of an enhanced transformation efficiency in a growth-conductive medium; and
    - (b) rendering said bacterium competent.

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- 27. The preparation according to claim 26, wherein said bacterium is of the genus Escherichia.
- 20 28. The preparation according to claim 27, wherein said bacterium is an *Escherichia coli* (*E.coli*).
  - 29. The preparation according to claim 28, wherein said bacterium is DH5 $\alpha$  or a derivative thereof or an equivalent thereof.
- 30. The preparation according to claim 29, wherein said bacterium is
   25 DH5α.